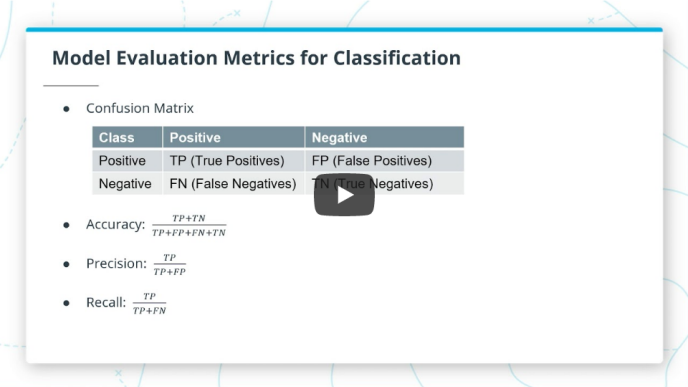
Evaluation Metrics for Classification



QUESTION 1 OF 2

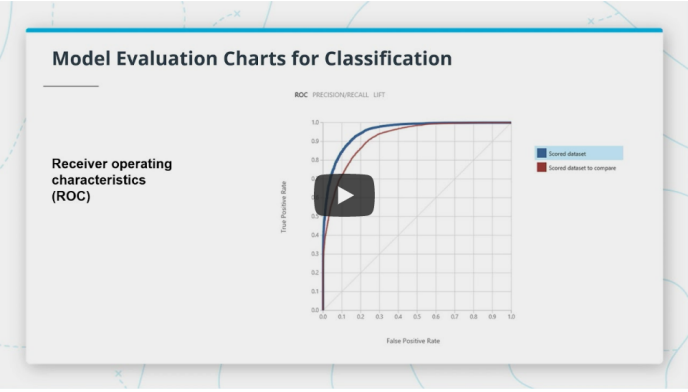
As we just saw, the confusion matrix gives us several different metrics we can use to measure the performance of our model. See if you can remember which formula is used to calculate each metric.

Submit to check your answer choices!

FORMULA	METRIC
$\frac{TP+TN}{TP+FP+FN+TN}$	Accuracy
$\frac{TP}{TP+FP}$	Precision
$\frac{TP}{TP+FN}$	Recall
$2 * \frac{Precision*Recall}{Precision+Recall}$	F1 score

SUBMIT

Model Evaluation Charts



QUESTION 2 OF 2

In the **Receiver Operating Characteristics (ROC)** chart that we just looked at, the **Area Under the Curve (AUC)** for the diagonal line is 0.5. What does this indicate?

- A classifier that performs perfectly
- A classifier that performs moderately well
- ✓ A classifier that performs no better than random guessing
- A classifier that is always (or almost always) wrong

SUBMIT

NEXT